

Little Pimmit Run at Chesterbrook Road

Stream Restoration Project

April 22, 2021

Department of Public Works and Environmental Services
Working for You!



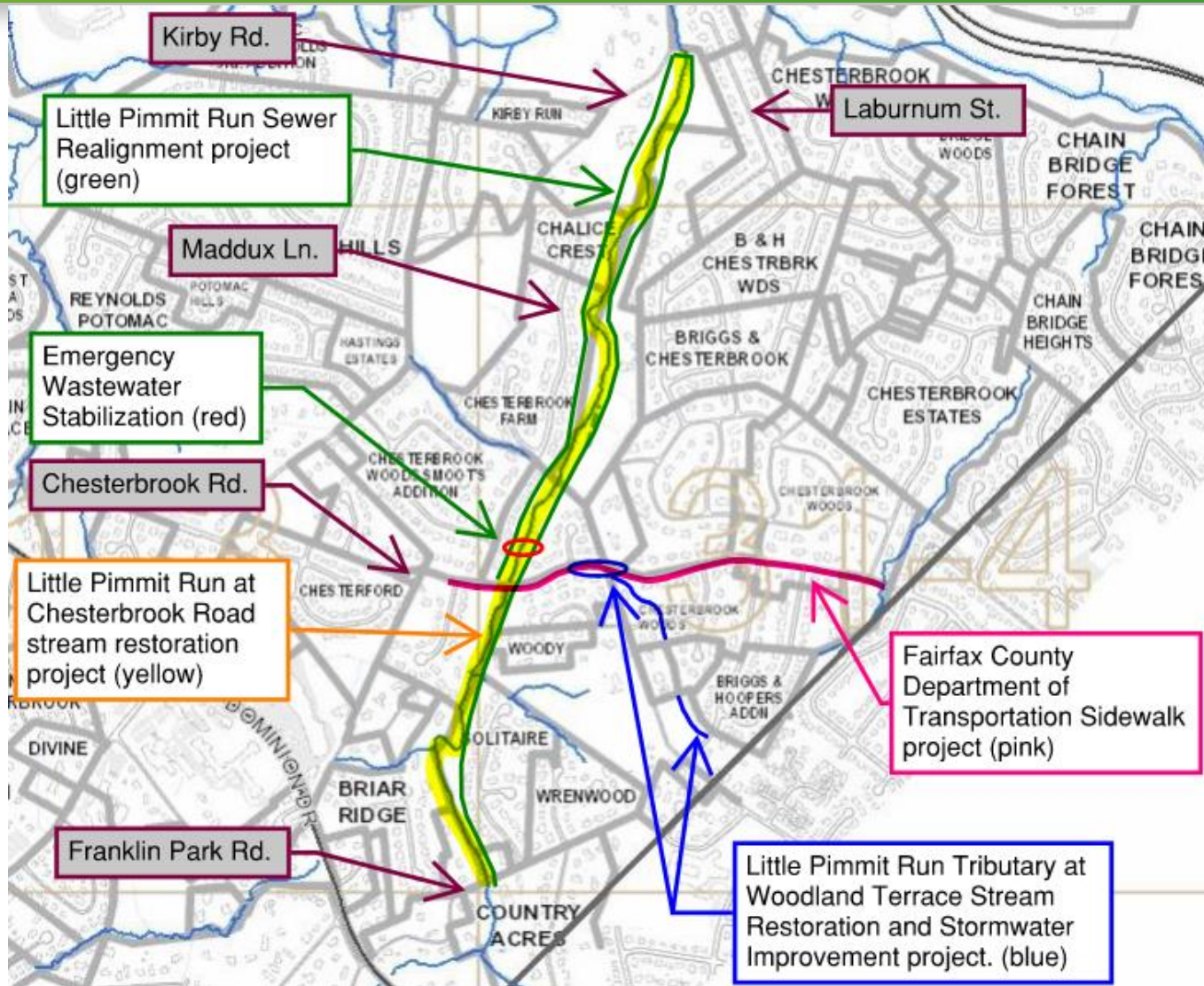
A Fairfax County, VA, publication
April 2021

Agenda

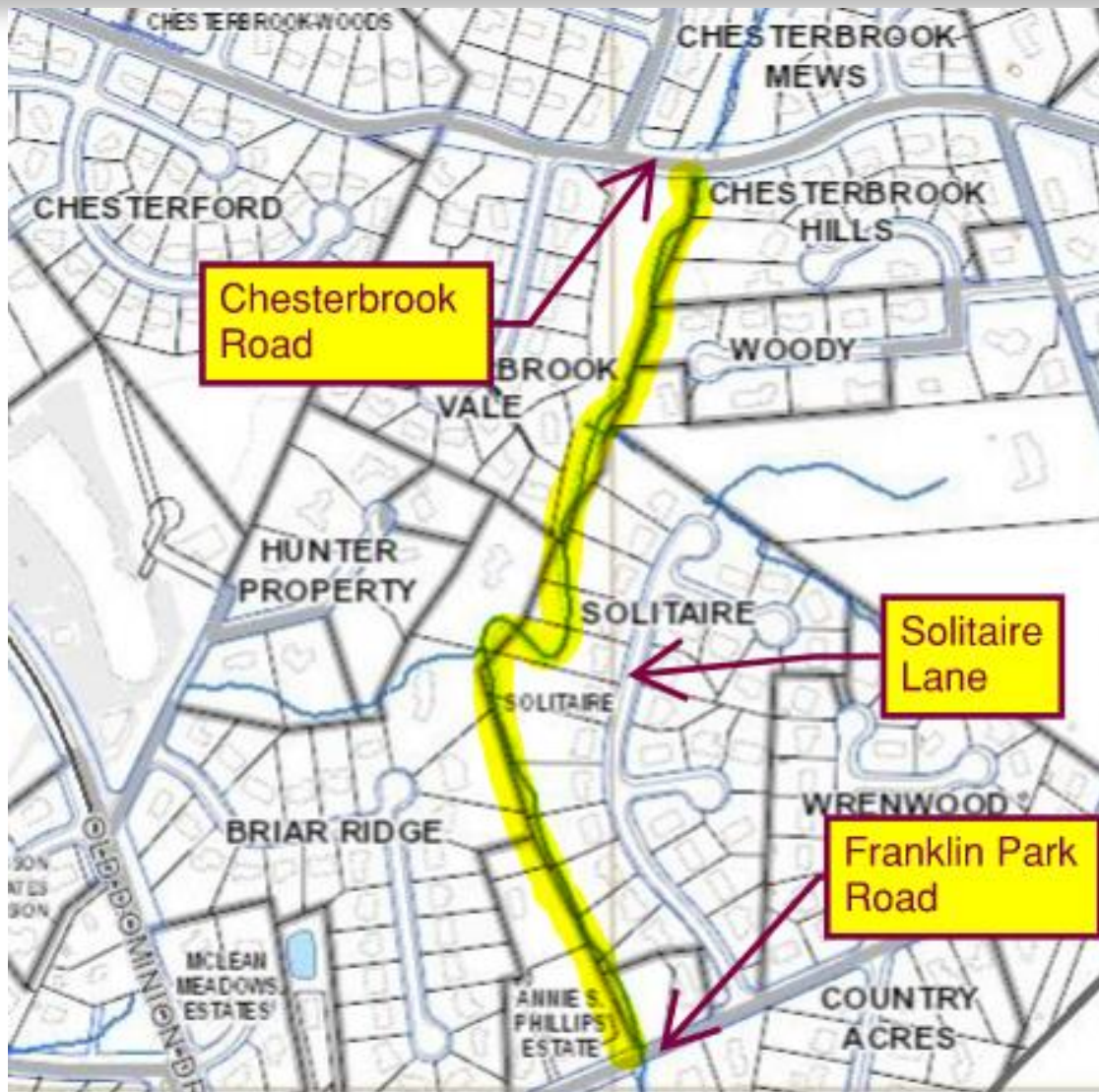
- Vicinity Maps
- Project Goals
- Social Goals
- Program Drivers
- Environmental Benefits
- Typical Structures
- Existing Conditions
- Construction Examples
- Completed Work
- Design
- Next Steps
- Contact Information



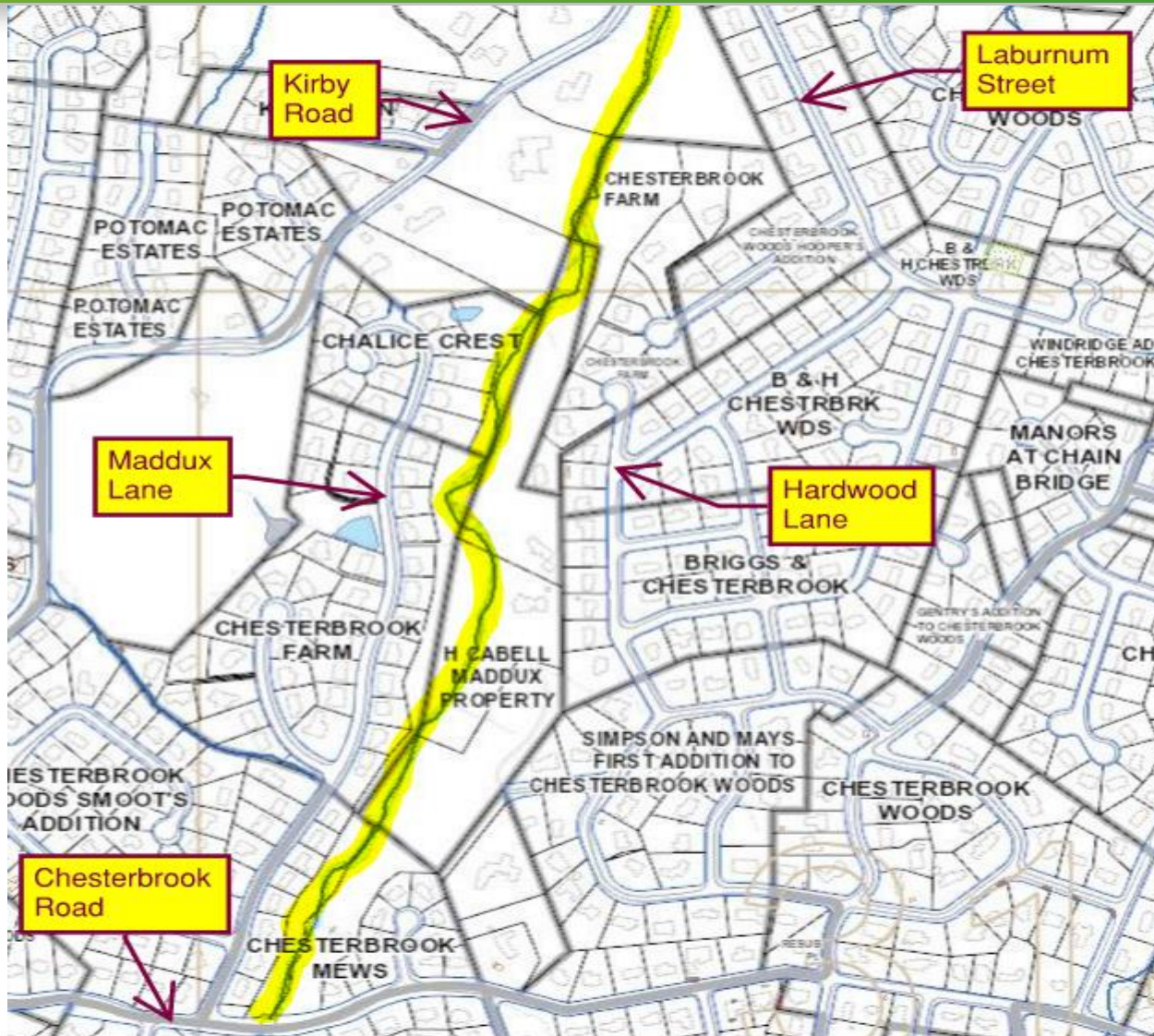
Vicinity Map (Big Picture)



Vicinity Map (Phase 1)



Vicinity Map (Phase 2)



Project Goals

1. Restore up to 7,100 feet of stream channel and connecting tributaries
 - Reduce sediment transport
2. Protect existing infrastructure
 - Coordinate with Little Pimmit Run Sewer Realignment Project
3. Maintain close coordination with stakeholders



Social Goals

1. Maintain open dialog and share information.
2. Coordinate with all the stakeholders and the community.
3. Build partnerships with local organizations such as homeowners associations.
4. Design Team:
 - Fairfax County Public Works
 - Fairfax County Park Authority
 - Wetland Studies and Solutions, Inc.



Stormwater Program Drivers

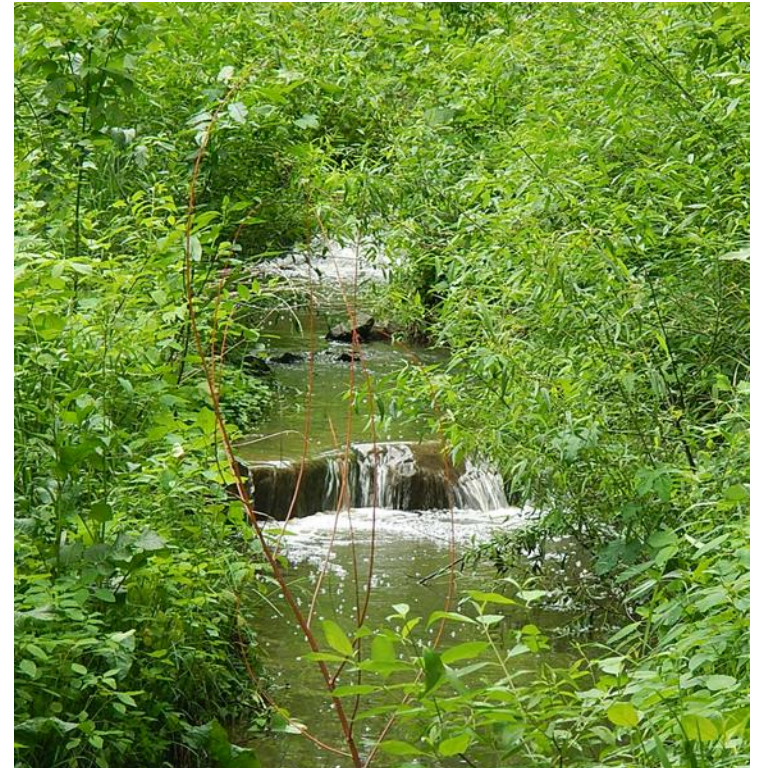
- Municipal Separate Storm Sewer Permit (MS-4)
- Chesapeake Bay Total Maximum Daily Loads (TMDL)
 - Regulates amount of pollutants in waterways
- Local TMDLs
- Dam Safety Regulations
- Maintenance of Existing Facilities
- Public Safety /Emergency Response



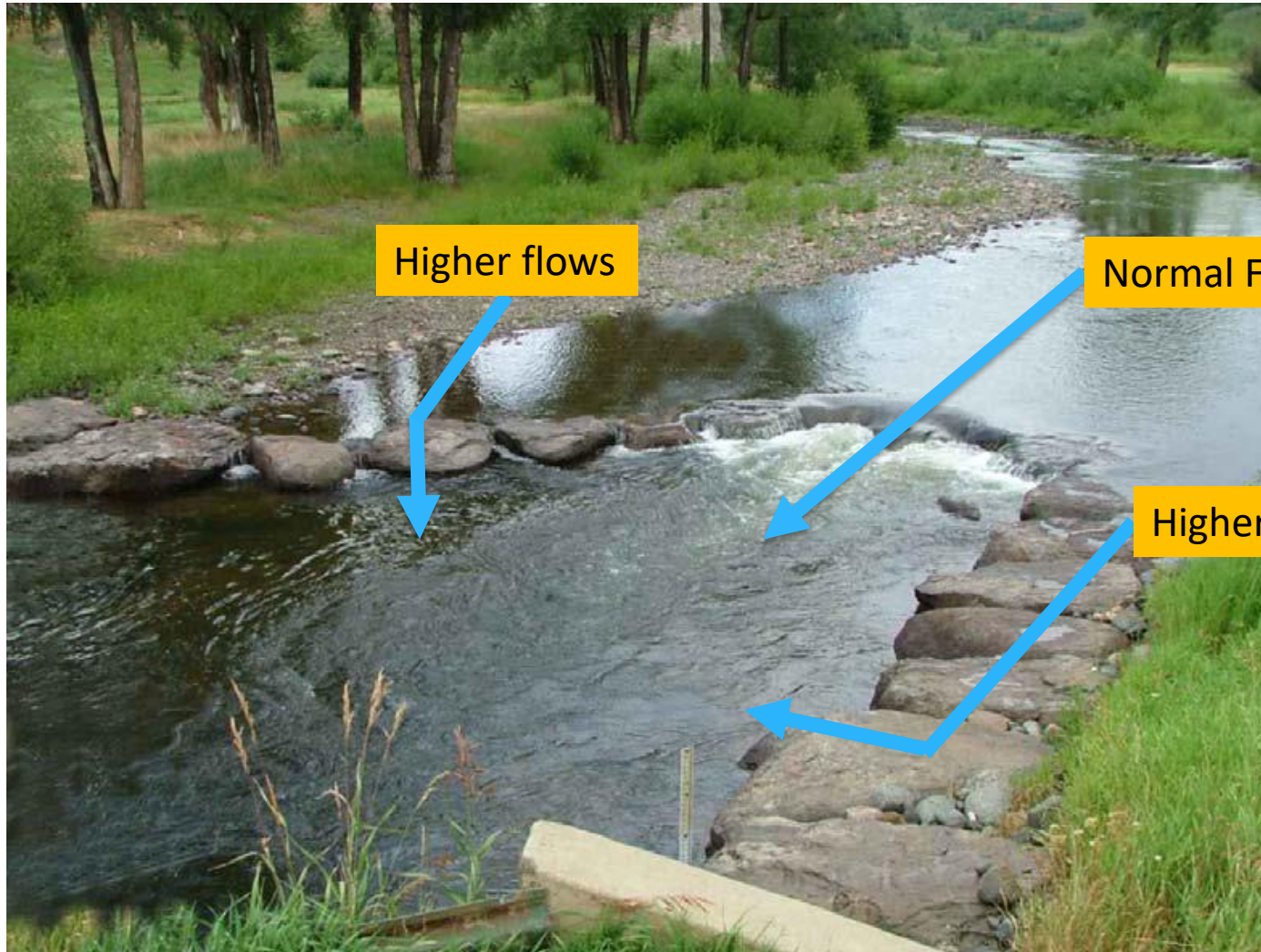
Environmental Benefits

Improve watershed conditions and reduce downstream impacts through....

- Control velocity
 - *Reduce erosion*
 - *Protect infrastructure*
 - *Protect vegetation*
- Restore riparian corridor
- Restore instream habitat



Typical Structures Used – Cross Vanes



Typical Structures Used – Root Wads



Typical Structures Used – Boulder Clusters



Typical Structures Used – Boulder Clusters



Wetland Studies and Solutions, Inc

Indian Run Ct
31 Mar 2020, 11:42:10 AM



Existing Bank Conditions – Phase 1



Existing Bank Conditions – Phase 1



Existing Bank Conditions – Phase 1



Existing Bank Conditions – Phase 1



Existing Bank Conditions – Phase 2



Existing Conditions – Phase 2



Existing Conditions – Phase 2



Existing Conditions – Phase 2



Existing Conditions – Phase 2



Construction Access Road



Construction Example – Channel Grading



Construction Example – Channel Grading



Before and After Examples

Flatlick Confluence



January 2011



September 2015

After Construction

Banks Park



November 2014



September 2018



Proposed Design Alignments

Alignment #1 – Establishes a balance between using the existing channel while increasing curves in the proposed channel.

Alignment #2 – Adds the most curves to the proposed channel.

Alignment #3 – Utilizes the existing channel to the greatest degree (limited sections in phase 2)

*All alignments largely utilize the existing over widened channel scar to minimize disturbance.



Brown Dashed Line = Existing Channel



Solid black line = Alignment #1



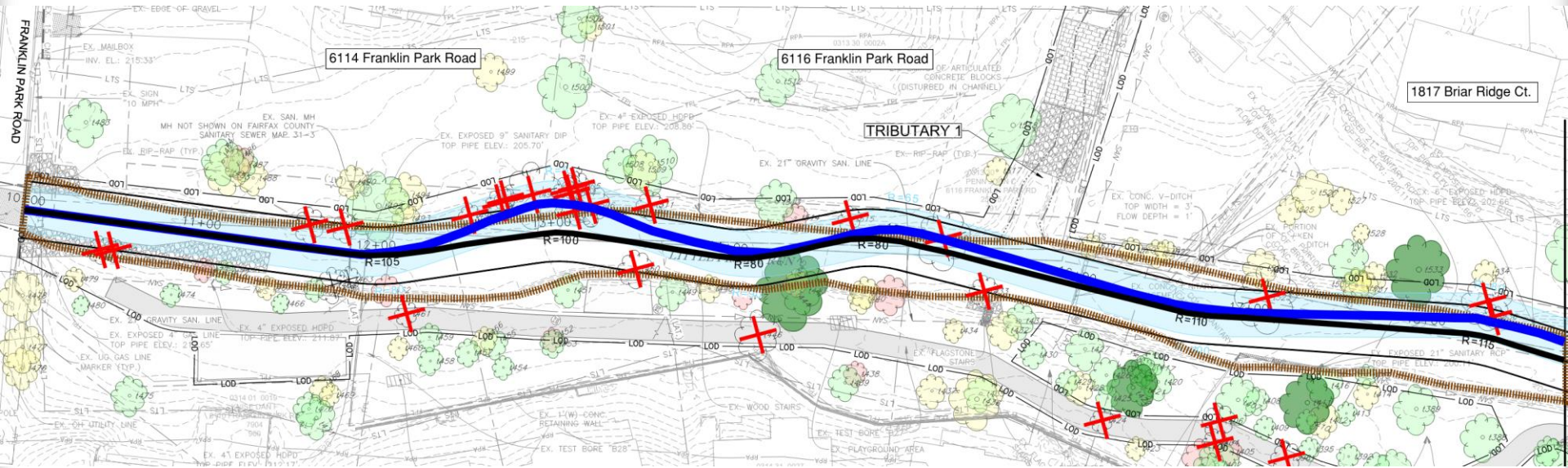
Solid blue line = Alignment #2



Solid orange line = Alignment #3



Proposed Channel Alignments – Phase 1



X – Impacted tree



Brown Dashed Line = Existing Channel



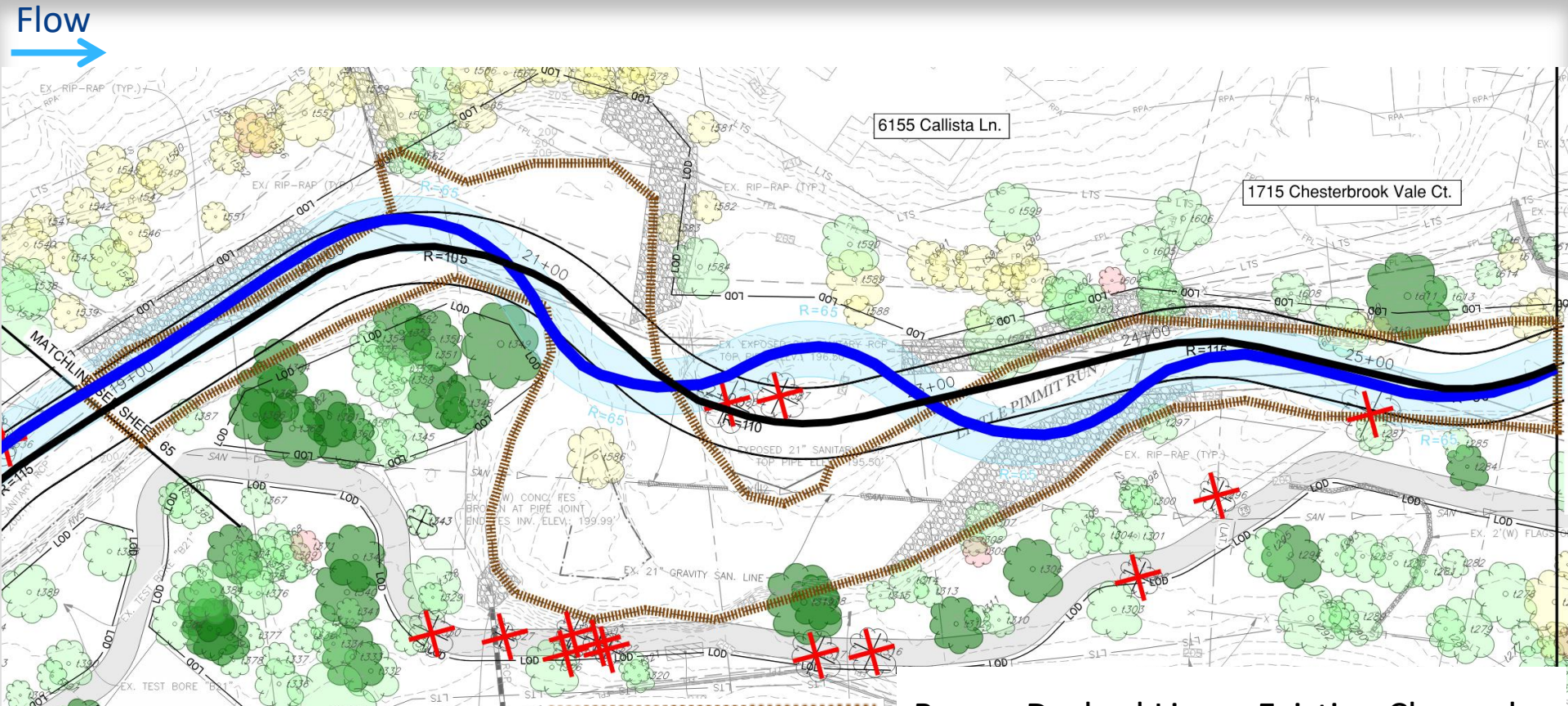
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Proposed Channel Alignments – Phase 1



X – Impacted tree

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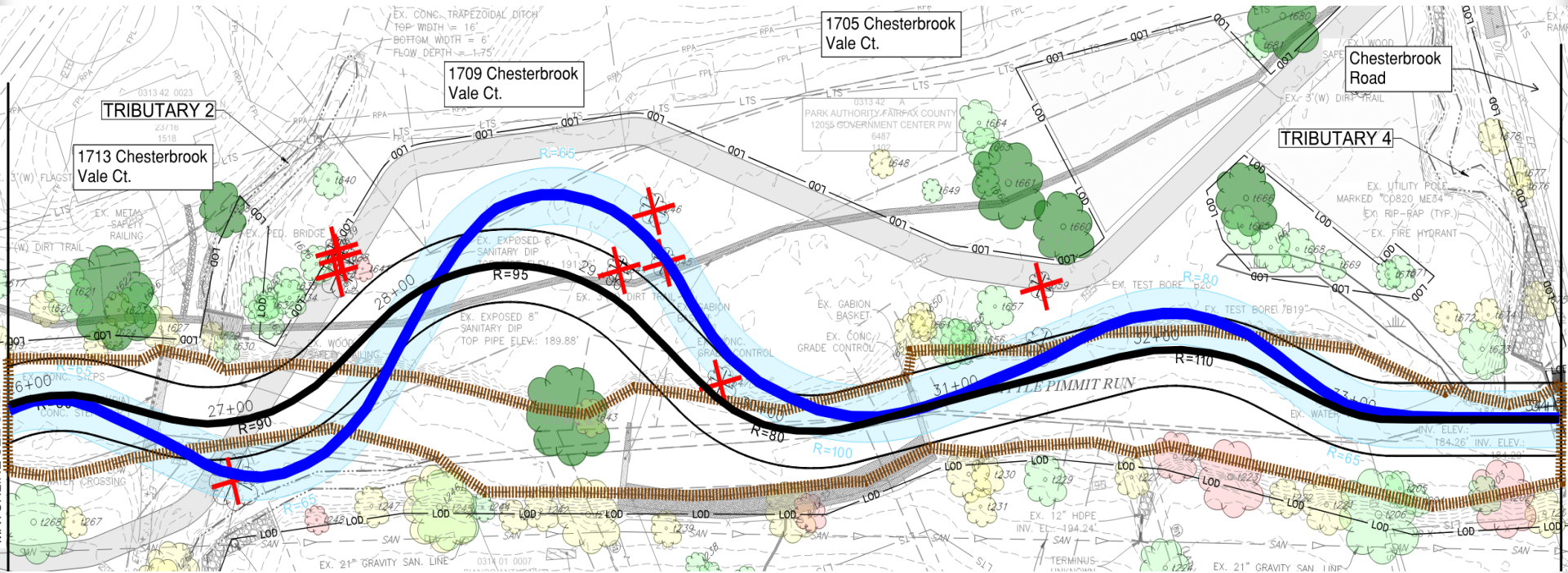
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Proposed Channel Alignments – Phase 1



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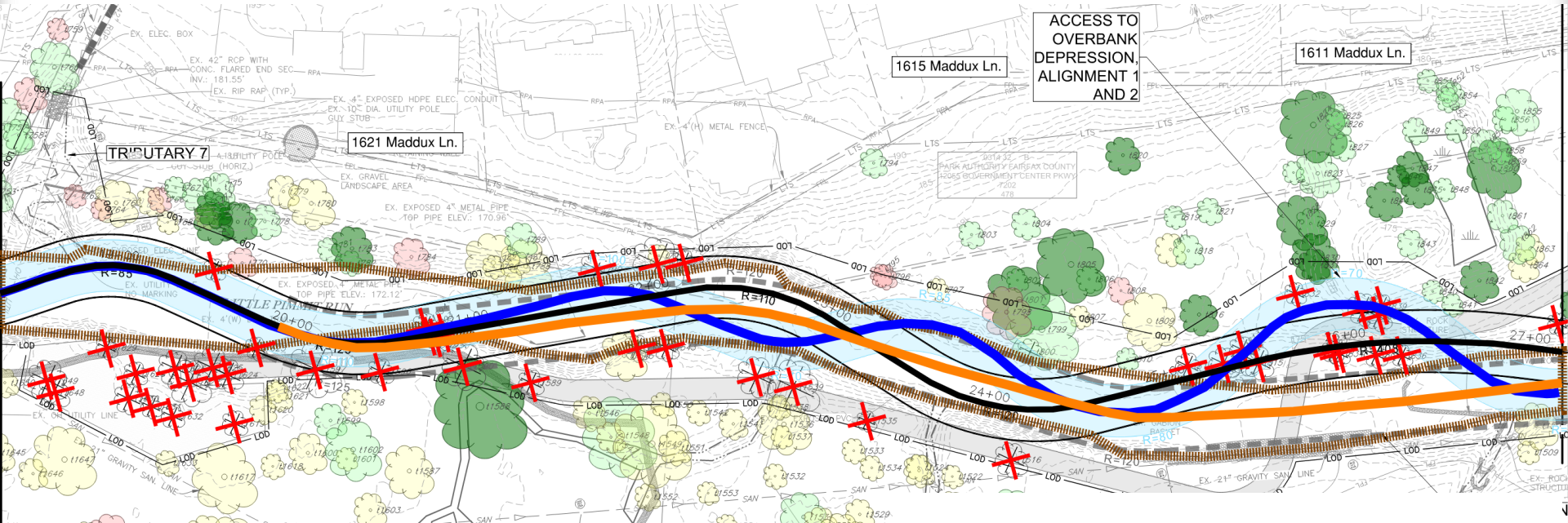
Solid black line = Alignment #1



Solid blue line = Alignment #2



Proposed Channel Alignments – Phase 2



X – Impacted tree



Brown Dashed Line = Existing Channel



Solid black line = Alignment #1



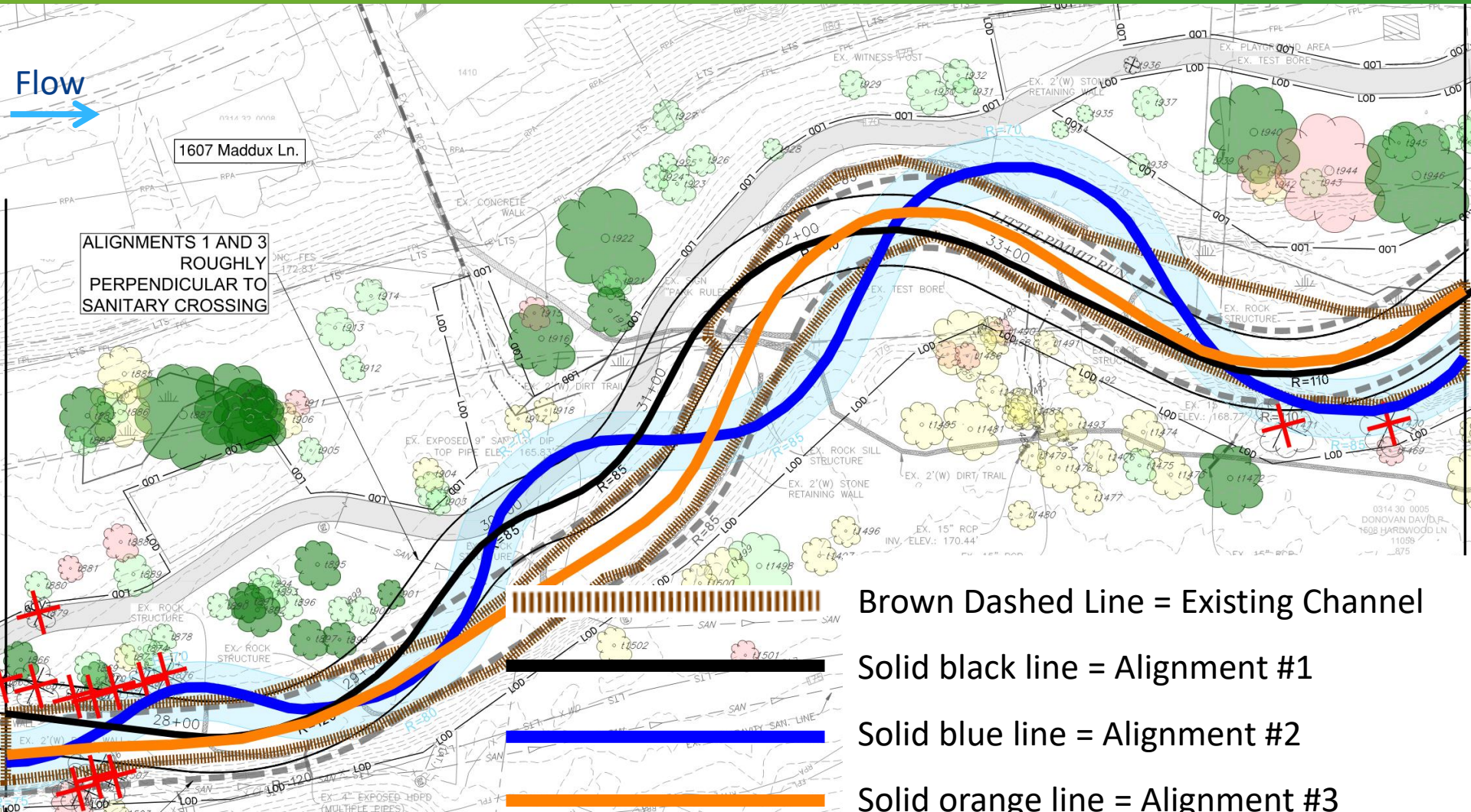
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Proposed Channel Alignments – Phase 2



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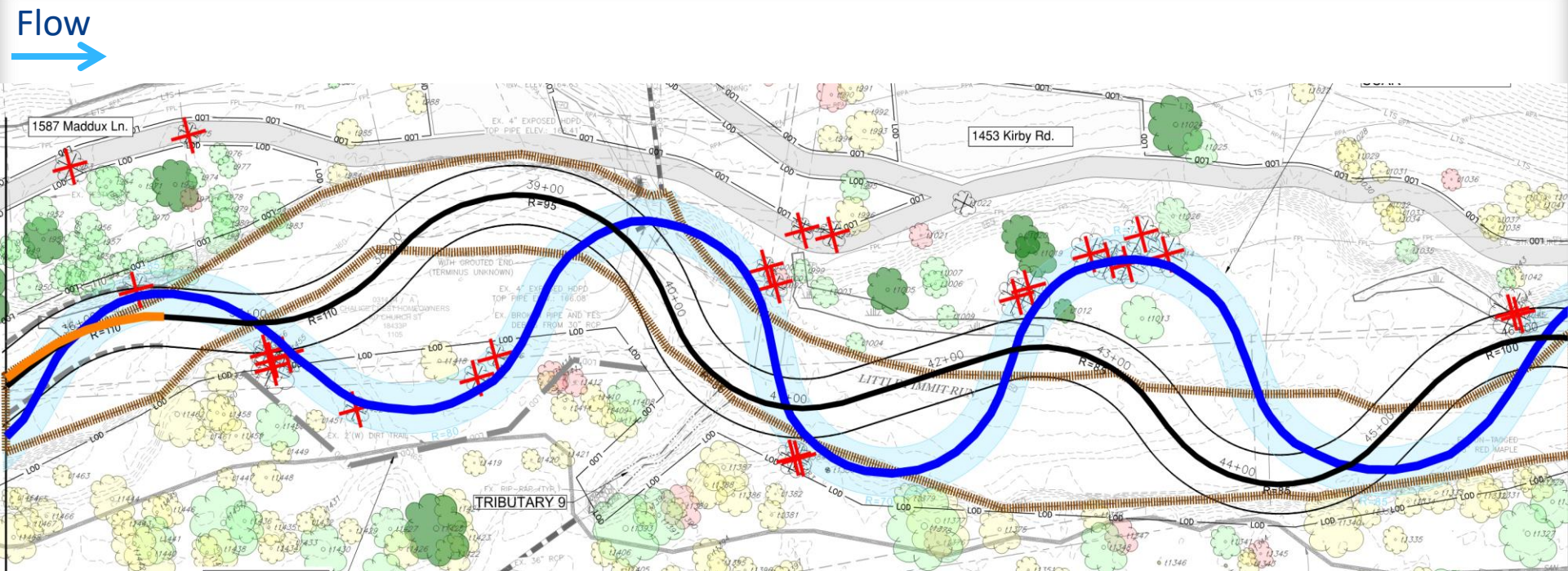
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Proposed Channel Alignments – Phase 2

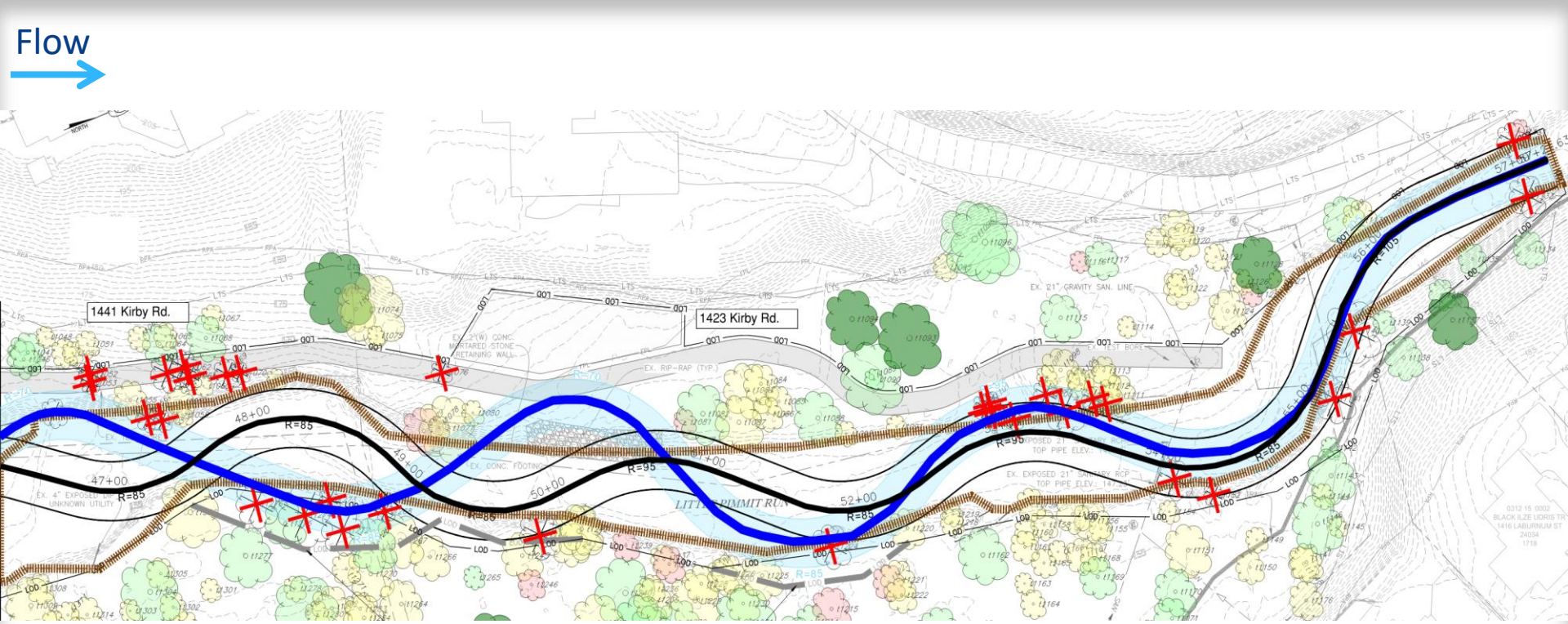


X – Impacted tree

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Proposed Channel Alignments – Phase 2



X – Impacted tree



Brown Dashed Line = Existing Channel



Solid black line = Alignment #1



Solid blue line = Alignment #2



Schedule

- Community meeting on Pre-design/Channel alignments – April 22, 2021
- Concept design submission – September 2021
- Concept design community meeting – November 2021
- Land Acquisition –
 - Easements required prior to final design
- Construction – To be determined
 - Pending date of completed design



Contact Information

Contact Information

Design

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Fred.Wilkins@fairfaxcounty.gov

Stormwater Planning Division

703-324-5500, TTY 711

12000 Government Center Parkway

Suite 449

Fairfax, Virginia 22035

www.fairfaxcounty.gov/publicworks/stormwater

To request this information in an alternate format call 703-324-5500, TTY 711



Online Resources

Stormwater Planning Division Website

<https://www.fairfaxcounty.gov/publicworks/stormwater/>

Northern Virginia Soil and Water Conservation District

<http://www.fairfaxcounty.gov/nvswcd/newsletter/planning.htm>

Middle Potomac Watersheds Management Plan (Includes Pimmit Run)

<https://www.fairfaxcounty.gov/publicworks/stormwater/middle-potomac-watersheds>

Little Pimmit Run at Chesterbrook Road Stream Restoration and Stormwater Improvement Project

[Little Pimmit Run at Chesterbrook Road
Stream Restoration \(SD-000031-246\) |
Public Works and Environmental Services
\(fairfaxcounty.gov\)](#)



Questions?

